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Data included in this report were obtained by the agencies named above in cooperation with the Oregon State Engineer, U.S. Forest Service, National Park Service and other Federal, State and local organizations.



FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

OREGON

Report Prepared by

W. T. Frost, Hydraulic Engineer

Issued

March 9, 1952

Division of Irrigation
Soil Conservation Service
and
Oregon Agricultural Experiment Station
P. O. Box 1149
Medford, Oregon



PRELIMINARY WATER SUPPLY OUTLOOK FOR OREGON

March 1, 1952

Oregon's 1952 water supply outlook, dependent on mountain snows, is "good" to "excellent" with water content of present snow cover breaking all previous records on 35 out of 93 courses measured. March I records were broken at 52 out of 93 snow courses. Reservoired water supplies are 22 percent less than last year, but above normal snow cover should make up the difference.

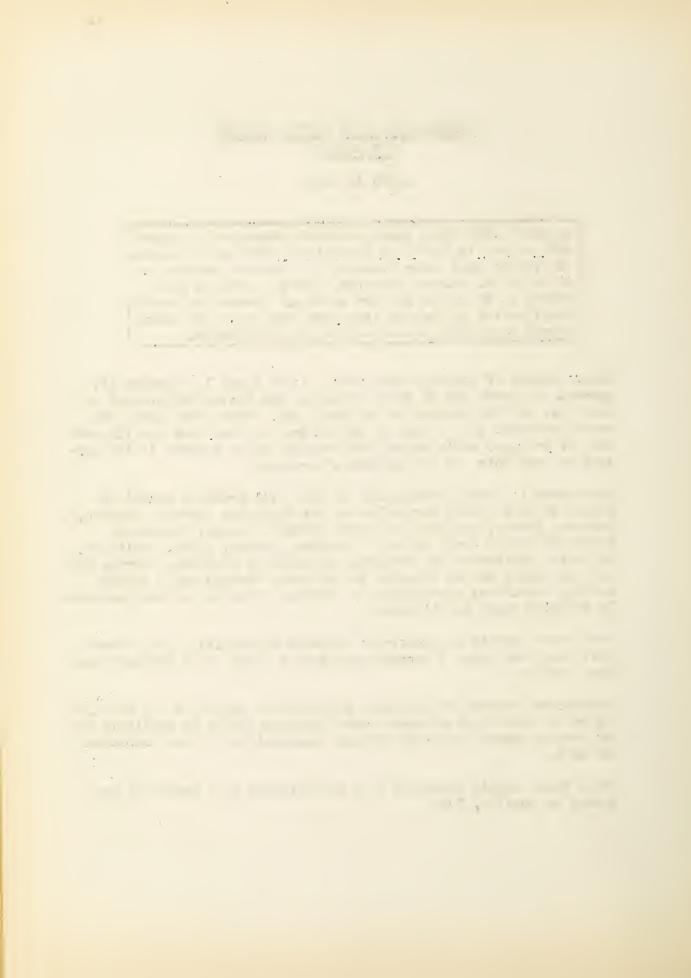
Water content of mountain snow cover, as of March 1, averages 167 percent of normal for 93 snow courses in the State, 160 percent of last year and 120 percent of one month ago. Above 5000 feet, the water contained in the snow is 157 percent of last year and 167 percent of average, while below 5000 feet the water content is 168 percent of last year and 167 percent of average.

The unusually heavy accumulation of snow will probably result in record or near record streamflow on the following streams: Owyhee, Malheur, Imnaha, Wallowa, John Day, Crooked, Ochoco, Deschutes, Coast and Middle Forks of the Willamette, Umpqua, Rogue, Applegate, Illinois, Williamson and Sprague. Extremes of high water during the melting season can be expected in the above streams while unusual melting conditions accompanied by abnormal rains can produce extremely damaging flows in all cases.

Total water stored in twenty-two reported reservoirs is 22 percent less than last year, 7 percent more than in 1950 and 6 percent less than average.

Preliminary streamflow forecasts presented on pages 2 and 3 of this report indicate that adequate water supplies should be available in all Oregon stream basins if average accumulation of snow continues in March.

Final water supply forecasts will be published in a report to be issued on April 9, 1952.



PRELIMINARY STREAMFLOW FORECASTS, MARCH 1, 1952

The following preliminary runoff forecasts are based on present mountain snow cover and on the assumption that average February and March increase of snow cover will occur. Greater or less than average increase in mountain snow cover during the next two months will correspondingly modify these estimates:

Apri BASIN AND STREAM	1-Sept., i		eamflow i		.A.F. O-yr.Avg
DESTR AND STREAM	1952	1951	1950		1941 - 50
NORTHC ENTRAL OREGON					á
Hood River at Powerdale plus					•
Power Canal	375.0	a	497.6	483.1	318.8
Hood River, W. Fk. near Dee	195.0	a	228.6	225.1	155.3
White R. below Tygh Valley	195.0	a	233.1	265.6	155.0
UMATILLA-WALLA WALLA					
Walla Walla R., So.Fk.nr. Milto.	n 73.0	а	a	84.8	70.4b
Umatilla River near Gibbon	92.0	a	110.1	106.7	92.9
Umatilla River at Pendleton	180.0	a	a	212.9	179.2 ^b
McKay Cr. above McKay Reservoir	30.0	a	39.9	22.7	31.9
NORTHEASTERN OR EGON					
Grande Ronde R. nr. LaGrande	200.0	a	235.8	191.5	199.2
. Catherine Creek near Union	75.0	a	a	73.0	72.4b
Bear Creek near Wallowa	100.0	а	75.5	73.6	73.2
Lostine River near Lostine	155.0	a	137.7	130.2	127.8
Hurricane Creek near Joseph	56.0	a	42.8	48.6	46.2
Wallowa River, E. Fk. plus					
Power Plant	15.0	a	10.8	11.3	11.6
Imnaha River at Imnaha	480.0	a.	287.7	254.0	303.0
Powder River at Salisbury	85.0	a	66.1	70.0	64.3
Burnt River near Hereford	62.0		40. 7	47 0	47 C
(Natural Flow)	0,2,0	a	49.7	47.0	43.6
EASTERN OREGON					
Malheur River, Middle Fork					
near Drewsey	115.0	a	63.3	68.5	75.9
Malheur River, N. Fk. at Beulah		а	63.6	56.5	62.2
Owyhee R. above Owyhee Reservoi	r 850.0 ^c	a	411.5°	530.5°	504.0°
John Day River at Prairie City,	o= o			44.0	50.0
combined with Power Canal	95.0	а	43.1	44.9	52.9
John Day R., Mid. Fk. at Ritter		a	125.8	123.2	127.4
John Day R., No. Fk. near Dale	440.0	a	267.7	288.2	261.1
Strawberry Cr. nr. Prairie City	11.0	a	7.1	8.3	8.4

^{*}Discharge data from preliminary records of U.S. Geological Survey and Oregon State Engineer.

aDischarge data not available.

b1941-1949 average.

CMarch-July.



Streamflow Forecasts, March 1, 1952 (Cont'd)

	April-Sept.,in				
BASIN AND STREAM	Forecast				yr.Avg.
	1952	1951	1950	1949	1941-50
HARNEY BASIN					
Silvies River near Burns	115.0	a	83.8	79.1	97.7
CENTRAL OREGON					
Ochoco Reservoir Net Inflo	w 50.0	a	a	33.3	29.6 ¹
Crescent Lake Net Inflow	32.0	a	35.0	29.4	19.0
Little Deschutes River near					
Lapine (Natural Flow)	110.0	а	137.1		85.0
Odell Creek near Crescent	40.0	a	40.3	_	29.0
Tumalo Creek and C.S. Canal	•	a	а	58.1	46.6
Squaw Creek near Sisters	64.0	a	60.5	60.8	48.5
COUTHCENTRAL OREGON					
Deep Creek above Adel	110.0d	a	70.3 ^d	71.4d	63.9
CLAMATH LAKE BASIN					
Upper Klamath Lake Net Infl	low 850.0	611.0	423.9	396.7	452.9
OUTHERN OREGON					
Hyatt Reservoir Net Inflow	8.0	a	а	7.6	5.8
Fourmile Lake Net Inflow Little Butte Cr., N. Fk. b	10.8	а	8.6	8.5	8.1
Fish Lake (Natural Flow		a	a	18.9	13.9
Rogue River, N. Fk. above Pro	•		380.5		305.1
Clearwater River above Tra			-	71.8	_
No. Umpqua River at Tokete		a	472.1	-	_
No. Umpqua River below Lak		a	189.0	-	160.5
TILLAMETTE VALLEY					
Willamette R., Mid. Fk. at	Eula 1180.0	a	1125.0	1019.2	824.4
			_	_	-
McKenzie R. at McKenzie Br	idge 700.0	a	771.8	716.4	562.5

Discharge data from preliminary records of U.S. Geological Survey and Oregon State Engineer.

aDischarge data not available.
b1941-1949 average.
dApril-June rather than April-September.



The following tabulation of Oregon stream basins presents the water content of the snow about March 1, 1952 as percent of the same date in 1951 and 1950 and average of record:

	No. of	Yrs.	March 1, 1952 Water
	Courses	of	Content as percent of:
DRAINAGE	Averaged	Record	1951 1950 Avg.
Owyhee River	11-12	6-23	196 228 190
Malheur River	6	7-16	170 162 164
Burnt River	4-5	7-16	154 148 1 56
Powder River	4-6	4-15	104 130 1 33
Pine Creek	1	1	180+
Imnaha River	2	8	136 126 146
Grande Ronde River	8	8-15	127 114 123
Wallowa River	2	8	136 126 146
Catherine Creek	1	13	132 112 112
Main Grande Ronde	5	12-15	118 106 112
Walla Walla River	1	13	139 121 125
Umatilla Rivor	5	10-15	138 110 123
Willow Creek	1	10	130 132 141
John Day River	10-11	7-16	135 133 141
North Fork	5	10-16	122 118 127
Middle Fork	2-3	7-16	156 149 152
Main Branch	3	15-16	160 150 162
South Fork	1	16	153 189 172
Crooked River	3	9-16	164 151 191
Deschutes River	6-9	1-15	130 115 150
Hood River	1	4	135 83 101
Willamette Valley	11-12	1-14	138 98 143
Sandy River	3	10-14	113 88 136
Clackamas River	3	10-14	118 76 141
Santiam Rivers	3	11	146 102 163
McKenzie River	2-3	2-11	140 108 129
Middle Fork	2-3	1-13	168 122 167
Coast Fork	1	13	281 137 231
Umpqua River	3-4	1-23	177 148 173
Rogue River	13-14	3-19	212 168 209
Upper Rogue	5	4-18	174 161 183
Bear-Little Butte Cr.	4	4-19	226 149 183
Applegate River	4-5	3-14	271 184 245
Illinois River	2	10-13	448 190 331
Klamath Lake Basin	17-18	2-25	176 200 200
Williamson River	11 - 12 6 - 7	8-25	165 199 190
Sprague River		11-25	231 255 221
Gerber-Clear Lake Basin		2-20	280 252 210
Goose Lake Basin	3-4	8-20	213 253 219 176 260 248
Warner Lake Basin	1 1	8 12	
Guano Lake Basin	3		_
Chewaucan River	3 6	12-13	
Silvies River	1	13-16	180 180 175 280 741 392
Alvord Lake Basin	1	3	
McDermitt Creek	1	3	280 741 392



	ATUS OF OREGON RES	USABLE				IN STO	RAGE
BAS IN		CAPACITY			MARCH		
and STREAM		Thousand re Feet		1951	1950	10 1949 1	Yr.Avg. 941-50
	UPPER C	OLUMBIA	DRAINAC	θE			
	Lower	Snake ir	n Oregon	1			
Owyhee	Antelope	36.5	N.R.	22,0	9.0	1,8	8.9
	Owyhee	715.0	479.5	652.6	429.8	294.9	497.5
Malheur	Warm Springs	191.0	31.8	55.0	17.8	34.9	94.5
		60.0	•				
Burnt	Unity	25.2	5.9	12.2	3,2	8.5	9.3
Powder	Thief Valley	17.4	N.R.	N.R.	N.R.	9.2	15.7
Frande Ronde	Wallowa Lake	40.9	11.4	18.2	12.2	19.1	20.3
	LOWER C	OLUMBIA	DRAINAG	ΞE			
Umatilla	McKay				45.7	42.8	49.2
	Cold Springs	50.0	42.2	46.6	35,6	35.0	40.0
Desch ut es	Ochoco	46.0	30.7f	43.4	6.3	25.8	21.1
	Crescent Lake	54.9					
	Crane Prairie	55.3	47.0g	54.6	40.0	34.6	35.3
	Wickiup	180.0	186.3	186.0	186.9	178.8	87.8
Willamette	Dorena				26.9		
	Cottage Grove					6.7	6.8
	Førn Ridgø	94.2ª	30.6	31.5	26.4	62.8	29.0
	WEST	COAST DE	RAINAGE				
Rogue	Fish Lake	7.8			4.7	5,1	4.4
	Fourmile Lakeb	16,1	6.3		7,3		
	Emigrant Gap	8.3				6.7	
	Hyatt Prairieb	16.1	4.2	5, 8	4, 1	7.5	5.0
Klamath	Upper Klamath Lk.						
	Gerber					12.9	
	Clear Lake	440.2	89.2	124.5	122.2	138.1	222.2
Goose Lake	Cottonwood	4.1 62.5	0.0			0.0 38.0	
	Drew						36.5

N.R. --- No Report.

aStorage space reserved for flood control.

CBased on gage zero elevation of 4135.0.

d₁₉₄₃-1950

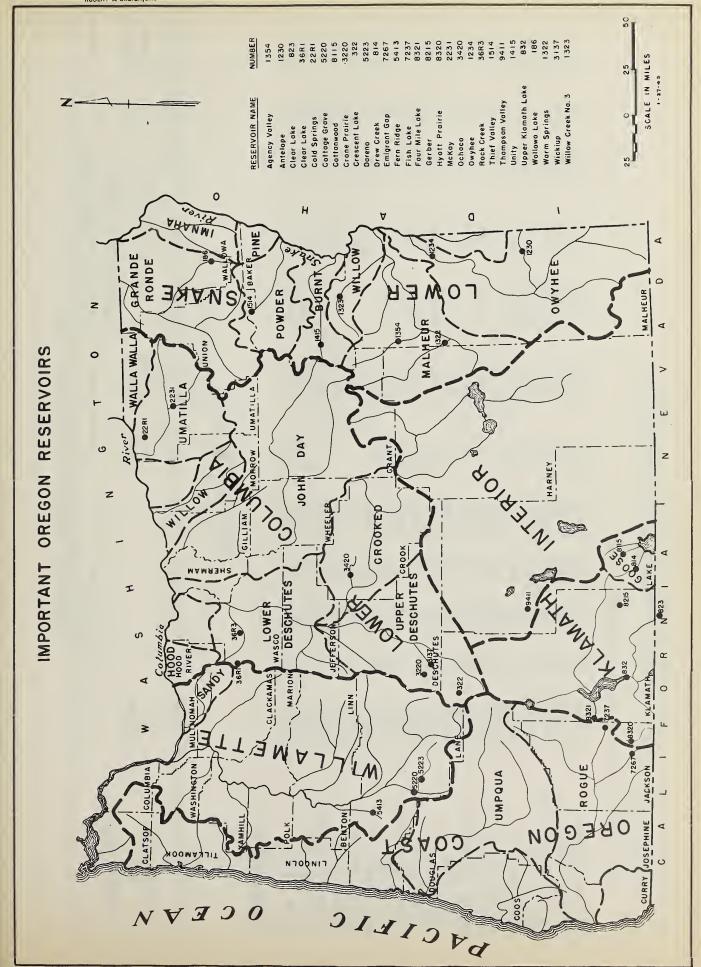
e1942-1950 fSpilling to provide space

for future inflow.

Estimated.

bBy ditch to Rogue River side from Klamath Drainage.







ORECON SNOW SURVEYS - ABOUT MARCH 1, 1952

		Av.Water	Content	(Inches)
	· ,	Years	of	1950 Record (Inches
) REMENTS	(In.)	pprox.	Date	1950
SNOW COVER MEASUREMENTS	Water Content (In.)	Same Approx.	Da	1951
SNOW COV	Water C			1952
		Snow	Depth	(In.)
		Date	of	Survey
				Range Elev.
NO				
CATI				Twp
27				Sec
		Number	or	State Sec. Twp.
	DRAINAGE BASIN	and	SNOW COURSE	

COLUMBIA DRAINAGE UPPER

1	Ω G	1
-	ST VE B	1
	ST A	
	とき	5

*												
*Bear Creek	Nev-1	31	46N	58医	7800	2/28	74.1	24.3a,b	18.0	17.8	20	16.1
*Granite Peak	Nev•4	22	44N	39E	7 800	3/2	60.2	23.0abc	13.9	9•3	8	9•6
Upper Jack Creek	Nev.10	တ	42N	43E	7250		t Measured		6.6	6. 8	16	9.8
*Midas	Nev.6	18	39N	46E	7200	OM .	Not Measured		5.6	2.5	12	5.2
*Upper Buckskin	Nev.2	Ħ	45 N	39E	7200	OIT	t Measured		8•0	0•9	18	6.6
*76 Creek	Nev•4	9	44N	58E	7100		t Measured	eur)	16.5	11.3	9	12.3
*Fox Creek	Nev.2	33	46N	58E	6800		46.6	14.8ª,b	8•6	8.1	8	8.6
Lower Jack Creek	Nev.9	18	42N	53E	6800	3/5	30.3	7.8a	1.0	0.0	24	4.6
Rodeo Flat	Nev.8	36	43N	53E	6800	3/4	53.9	15.0a	8 •8	7.1	18	6.6
Big Bend	Nev•6	8	45N	5 6E	6700	3/2	52.4	12.1a	11,1	8.4	23	9.1
Fry Canyon	Neve7	31	43N	54正	6700	3/4	55.8	16.4a	7.8	7.0	18	0.6
*Lower Buckskin	Nev.1	25	45N	39E	6700		Not Measured		11.3	7.8	18	8.9
*Martin Creek	Nev•3	18	44N	40E	6700		52.8	21.2abc	2 ° 6	7.3	50	7.9
Gold Creek	Nev.5	31	45N	26E	0099	Not	t Measured		7.2	5.4	02	9•9
*Disaster Peak	Nev.6	∞	47 N	34E	6500	3/1	102.2		16.7	6.3	63	11.9
Silver City	Idaho 12	9	58	3	6400	3/3	72.0	25.7abc	;	13.0	9	13.4
South Mountain #2	Idaho 13	35	78	21	6340	2/27	64.0	23,8abc	0.6	8.8	12	10.9
Taylor Canyon	Nev. 12	35	39M	53E	6200	3/4	42.8	12.0abc	2.4	2.3	17	5.6
*Tremewan Ranch	Nev-11	တ	39N	25E	2400	3/5	25.2	6°9	0.7	000	20	2,6

*Not located directly on this drainage area.

aTelegraphic bGreatest March 1 water content recorded since snow surveys began. GGreatest water content, regardless of date, since record began.

OREGON SWOW SURVEYS - ABOUT MARCH 1, 1952

		Ä	LOCATION	Z				SNOW COVER MEASUREMENTS	ER MEASU	REMEN IS		
DRAINAGE BASIN								Water C	Content (Inc	$\operatorname{In}_{\mathfrak{c}})$		
and SNOW COURSE	Number					Date of	Snow Depth		Same Approx. Date	proxe	Years	Av.Water Content
	State	Sec	Twp	Twp. Range	Eleve	Survey	(In.)	1952	1951	1950	Record	(Inches)
MALHEUR RIVER												
*Barney Creek	143	16		36E	5950	2/27	39.7	13.1b,c	5.6	8.7	2	7.6
Blue Mountain Springs	133	21	158	35E	5 900	2/28	64.8	22.0	16.5	14.4	91	14.7
Crane Prairie	137	24		34E	5375	2/28	50.5	15.6b,c	8.8	8 . 6	13	9.1
Lake Creek	136	ឧ		33 <u>3</u> E	5120	2/26	53.2	16.3	10,6	8.4€	13	10.2
Rock Spring	134	23		32E	5100	3/2	35.3	10.0	5.00	5.6	16	6.4
Stinking Water	135	33	218	34E	4800	3/1	29.7	8.7b.c	4.0	6.3	13	4.4
BURNT RIVER												,
Barney Creek	143	16	148	36E	5950	2/27	39.7	13.1b,c	5.6	8•7	7	7.6
Dooley Mountain	156	32	118	40E	5430	62/2	46.6	14.4b,c	9•6	7.8	13	8•9
*Gold Center	249	21	98	36E	5340	3/3	50.4	17,3 ^b ,c	13.4	13.8	12	11.9
Tipton	142	34	105	35臺田	5100	3/1	46.5	14.9		11.0	7	10.0
Blue Mountain Summit	141	9	128	36E	2038	2/29	43.5	13.6	9•3	8.3	16	8 •8
POWDER RIVER												
Anthony Lake	155	18	78	37 E	7125	2/29	75.1	25.1	26 •2	24.0	12	24.5
Goodrich Lake	157 34&35	1435	88	38E	6775	2/29	116.7	46.3b	ı	36.7	4	35.1
Bourne	154	33	88	37 E	2800	3/3	65.1	21.3	25.6	16.5	15	14.9
Dooley Mountain	156	32	118	40E	5430	2/29	46.6	14.4b,c	9•6	7.8	13	8•9
Eilertson Meadows	151B	18	88 83	38E	2400	3/2	53.4	17.0	:	10.7	13	11.1
*Gold Center	249	21	86	36E	5340	3/3	50.4	17.3b,c	13.4	13.8	12	11.9

*Not directly located on this drainage area.

Ogreatest March 1 water content recorded since snow surveys began. Greatest water content regardless of date since record began.

* ÷.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1952

		I	LOCATION	N				SNOW COV	SNOW COVER MEASUREMENTS	EMEN TS		
DRAINAGE BASIN								Water C	Content (In.)	n•)		
and SNOW COURSE	Number or					Date	Snow Depth		Same Approx. Date	roxe	Years	Av.Water Content
	State	Sec	Twp.	Twp. Range	Elev.	Survey	(In.)	1952	1951	1950	Record	(Inches)
PINE CREEK												
Schneider Meadows	191	35	6 S	45E	5400	2/27	128.4	44.4b,c	24.7	į	ч	24.7
IMNAHA RIVER												
*Aneroid Lake No. 1	183	16	S 4	45E	7480	3/1	111.2	43.3b	31.3	35.8	8	29.9
*Aneroid Lake No. 2	183A	16	4.5	45E	2000	3/1	87.5	34°1p	26.1	26.0	8	23.8
Coverdale	171	22	58	47E	4250	No	Not Measured		ţ	14.3	မ	11.6
GRANDE RONDE RIVER												
Aneroid Lake No. 1	183	16	45	45E	74 80	3/1	111.2	43.3b	31.3	35.8	89	29.9
Anthony Lake	155	18	78	37E	7125	2/29	75.1	25.1	26.2	24.0	12	24.2
Aneroid Lake No. 2	183A	16	4S	45E	2000	3/1	87.5	34.7b	26.1	26.0	ω	23.8
Moss Spring	186A	88	38	41E	5850	5/29	68.9	23.2	17.6	20.7	13	20.8
Beaver Reservoir	188	∞	58	37 E	5340	3/1	41.3	11.2	හ ග	8.6	13	11.0
Tollgate	212	32	4N	38E	5070	2/28	83.3	31.5	22.7	0 ° 92	13	25.1
*Lucky Strike	223	28	38	32E	5050	2/29	45.8	13.4	12.5	14.8	13	12.0
Schoolmarm	24.8	28	48	34E	4775	Кер	Report Delayed	d.	4.6	1	വ	4.0
Meacham	221 2	24&25	18	35E	4300	2/28	32.8	10.1	7.0	12.0	15	9.7

*Not located directly on this drainage area.

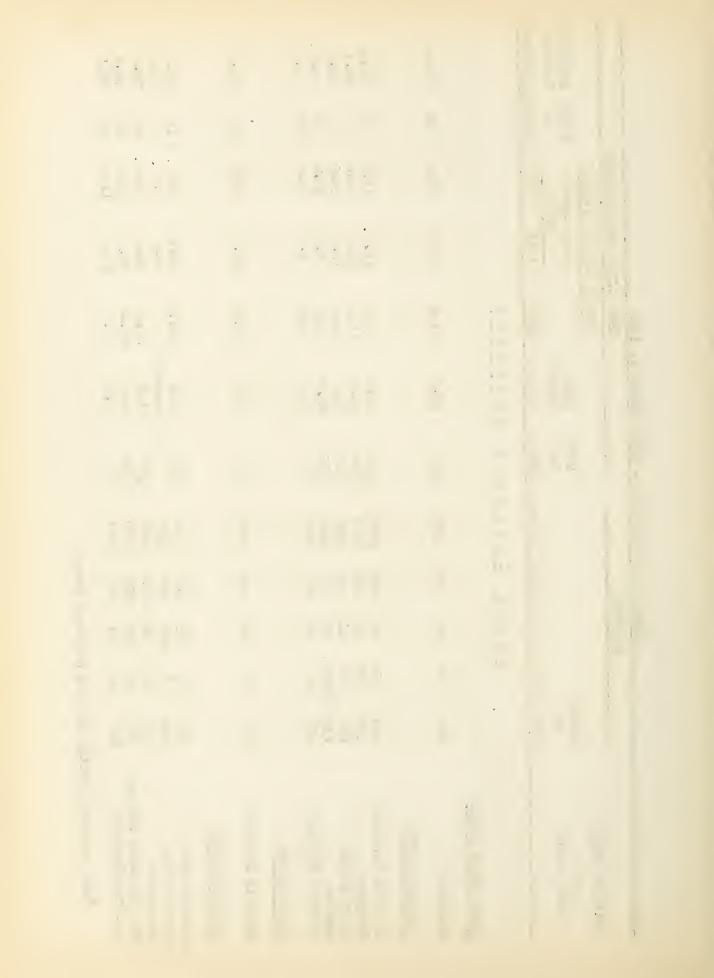
**DGreatest March 1 water content recorded since snow surveys began.

**GGreatest water content, regardless of date, since record began.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1952

			LOCATION	N				SNOW CC	SNOW CCVER MEASUREMENTS	REMENTS		
DRAINAGE BASIN								Water	Content (In.)	In.)		
and SNOW COURSE	Number	S .	•			Date	Snow Depth	-	Same Approx. Date	prox.	Years	Av.Water Content
	State	Sec.	į	Twp. Range	Eleve	Survey	(In.)	1952	1921	1950	Record	(Inches)
		니	LOWE	٥i ها	N I I	BIA	DRAIN	A GE				
WALLA WALLA RIVER												
Tollgate	212	32	4N	38E	5070	2/28	88.3	31.5	22.7	26.0	13	25.1
UMATILLA RIVER												
Arbuckle Mountain	241	33	48	29E	5400	2/29	43.8	15.2	11.7	11.5	91	10.8
Tollgate	212	35	4N	38臣	5070	2/28	83.3	31.5	22.7	26.0	13	25.1
Lucky Strike	223	238	S .	32E	5050	2/28	45.8	13.4	15 . 5	₩	15 15	12.0
Meacham Emigrant Sorings		24%25 29	2 2	35 E	3925	2/28	27.08	10.1	\$ 4 5°	0 4 8 0 4 8	12	7.5
WILLOW CREEK												
Arbuckle Mountain	241	33	4S	29臣	5400	2/29	43.8	15.2	11.7	11.5	9	10.8
JOHN DAY RIVER												
*Anthony Lake	155	18	7.5	37 E	7125	5/28	75.1	25.1	26.2	24 •0	12	24.2
*Snow Mountain	965	-	198	26 至	6300	Not			1	1	ເດ	10.8
Olive Lake	245	14	98	33差压	0009	2/27	71.9	25.2	15.4	16.8	16	16 • 6
Blue Mountain Springs	133	21	158	35正	2900	2/28	64.8	22.0	16.5	14.4	1 6	14.7
Arbuckle Mountain	241	33	48	29臣	2400	2/29	43,8	15.2	11.7	11.5	10	10.8

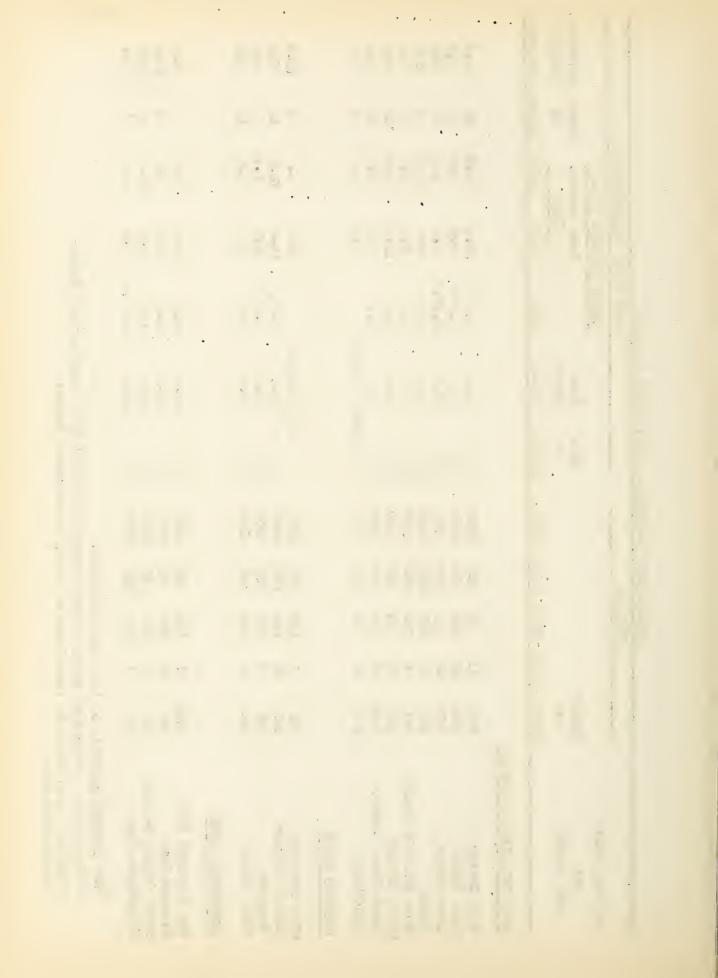
*Not located directly on this drainage area.



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DRAINAGE BASIN								Water C	Content (In.)	(In.)		
and SWGW COURSE	Number					Date	Snow Depth		Same Approx. Date	pprox.	Years	Av.Water Content
	State	Sec.	Twp	Range	Elev.	Survey	(In.)	1952	1951	1950	Record	(Inches)
JOHN DAY RIVER (Cont'd)												
Gold Center	249	21	86	36E	5340	3/1d	50.4	17.3abc	13.4	13.8	12	11.9
*Izee Summit	964	28	168	29臣	5293	2/28	44.8	13.8bsc	0.6	7.3	16	8•0
Starr Ridge	247B	50	15.5	31E	5156	2/28	37.2	10,8b,c	5.3	5.3	16	5.7
Tipton	142	34	108	35是E	5100	3/1	46.5	14.9	1	11.0	7	10.0
Blue Mountain Summit	141	9	125	36E	5098	2/29	43.5	13.6	9 5	8•3	16	8•8
*Lucky Strike	223	28	38	32E	5060	2/29	45.8	13.4	12.5	14.8	13	12.0
Beech Creek Summit	246A	4	128	30E	4800	2/28	34.8	10.4	5.5	9.1	15	6.2
Schoolmarm	248	28	48	34E	4775	Re	Report Delay	yed	4.6	ļ	ည	4.0
CROOKED RIVER												
*Snow Mountain	965	Н	198	26E	6300		Not Measured	pa	1	ł	ည	10.8
Ochoco Meadows	341	21	138	20E	5200	3/1	54.1	19.6b,c	11.9	12.0	1 6	8.6
Tamarack	342	ω ₍	155	25E	4800	2/28	36.3	10.25,c	6. 7	7.01	တ နှ	0 0
Marks creek	\$4 1 4	S.	128	ਹ ਹਨ -	4540	67/2	50° ⊕4	ი •	200	0	7.	7.● ₹
DESCHUTES RIVER												
New Dutchman Flat	324A	21	188	36	6400	2/29	163.3	65 •2b	53 •9	52 • 3	က	48.0
Windige Pass	744	8	258	EE	5800	3/1	144.1	54.3b	42.9	1	~	42.9
Three Creeks Meadows	331	83	178	36	2600	2/28	80.8	31.6b	23.8	26.0	က	20.4
Willemette Pass	323	21	24S	5点形	2600	3/1	143.4	54.6b,c	37 •1	1	ન	37.1
												10

bGreatest March 1 water content recorded since snow surveys began. cGreatest water content, regardless of date, since record began-dApproximate date *Not located directly on this drainage area. a Telegraphic



1952
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SURVEYS
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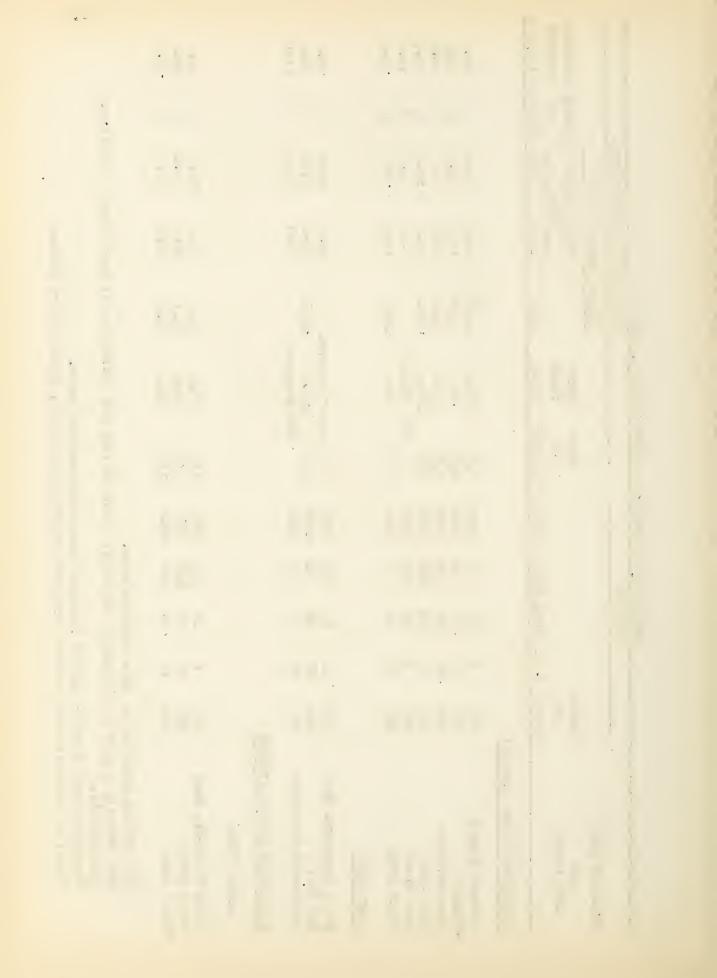
			T OO A TIT	NO.				TOD MOND	SAMEREGITS VERY GETTON WICHS	OUNCERNE		
		1	TIWOO	N. A.		-		DIVON OO	TO CHART WITH	2 I Marian		
DRAINAGE BASIN								Water	Content (Tn3)	(no)		
and SNOW COURSE	Number					Date	Snow Depth		Same Approx. Date	orox.	Years	Av.Water Content
	State	Sec.	Twp.	Range	Elev.	Survey	(In.)	1952	1951	1950	Record	(Inches)
DESCHUTES RIVER (Cont'd)												
	1											
Cascade Summit	321	7	238	GE	4880	3/1	107.8	45 •6b	34.5	45.0	7	30.1
*Chemult	834	21	27.8	8E	4760	3/1	58.7	21.4d	14.7	13.4	15	10.6
Crescent Lake	325	11	24S	E E	4760	2/26	64.5	24.2b	1	1	23	8•6
Hogg Pass	351	24	138	$7\frac{1}{2}E$	4755	3/1	137 •1	56.1	44.3	50 • 4	7	38.4
Rock Creek	362	Н	48	10E	4200	No	Not Measured		i	ł	~2	13.4
Clear Lake	361	29	48	36	3500	5/29	49.4	18.4	14.9	23.3	01	12.3
HOOD RIVER												
Tilly JaneMt. Hood	432	15	28	36	0009	Rep	Report Delayed	ਲੂ	44.2	53.8	4	49.0
Red Hill	434	21	18	9E	4400	3/2	120.8	57.1a	42.4	0.69	4	56.3
Greenpoint Reservoir	433	28	SN	3E	3400	No	Not Measured		12.0	30 • 4	4	21.8
WILLAMETTE VALLEY STREAMS	18											
SANDY RIVER1												
Phlow Point-Mt. Hood	452	Y	N.	9 H	5600	2/04	2 87	48.7	61.4	73.6	4	52.7
Still Creek	451	, K3	300	85E	3700	2/27	75.5	31.1	26.4	35.8	14	20•6
*Clear Lake	361	59	48	<u>到</u>	3500	2/29	49.4	18.4	14.9	23.3	10	12.3

*Not located directly on this drainage area.

Not strictly a part of Willamette Drainage; these surveys are indicative of West Slope conditions.

aTelegraphic.

bGreatest March 1 water content recorded since snow surveys beganed Equal to greatest water content measured, regardless of date, since record beganed.



OREGOW SNOW SURVEYS - ABOUT MARCH 1, 1952

			OKECOM	ONOM	OKEGON SNOW SORVEIS	- ABOUI	ABOUT MARCH I.	7261				
		1	LOCATION	N				SNOW COV	SNOW COVER MEASUREMENTS	EMENT S		
DRAINAGE BASIN								Water (Water Content (In.)	u•)		
and	Number					Date	Snow		Same Approx.	roxe	Years	Av.Water
SNOW COURSE	or					ಕ	Depth		Date		ot	Content
	State	Sec	Twp.	Range	Elev.	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
WILLAMETTE VAILEY STREAMS (Cont'd)	MMS (Con	t'd)										
CLACKAMAS RIVER												
*Clear Lake	361	53	4.5	36	3500	2/29	49•4	18.4	14.9	23.3	9	12.3
Peavine Ridge	591 1	14&15	6.5	7臣	3500	3/2	6.99	25.2	19.8	31.6	14	16.1
Clackamas Lake	269	33	5.5	8 <u>%</u> E	3400	2/25	48•6	16•4	16.1	23.8	7	14.3
SANTIAM RIVERS												
Hogg Pass	351	24	138	7 <u>3</u> E	4755	3/1	137.1	56.1	44.3	50.4	11.	38.4
Santiam Junction	223	14	138	7E	3990	3/1	94.4	40.9	24.7	37.2	T T	21.5
Marion Forks	553	28	118	7E	2730		26.0	21.8	12.6	29.4	7	13.1
Brietenbush	551	21	Se	7E	2325	Rep	Report Delay	, De	4. 5.	1	6	4•1
MCKENZIE RIVER												
McKenzie	531	35	158	73E	4800	2/28	137 •2	55.9	ł	53.8	82	59.0
Hogg Pass Santiam Junction	351 552	24 14	13S 13S	7 <u>美</u> 臣 7.是	4755 3990	3/1	137 • 1 94 • 4	56.1 40.9	44.3 24.7	50 • 4 37 • 2		38.4 21.5

*Not located directly on this drainage area.



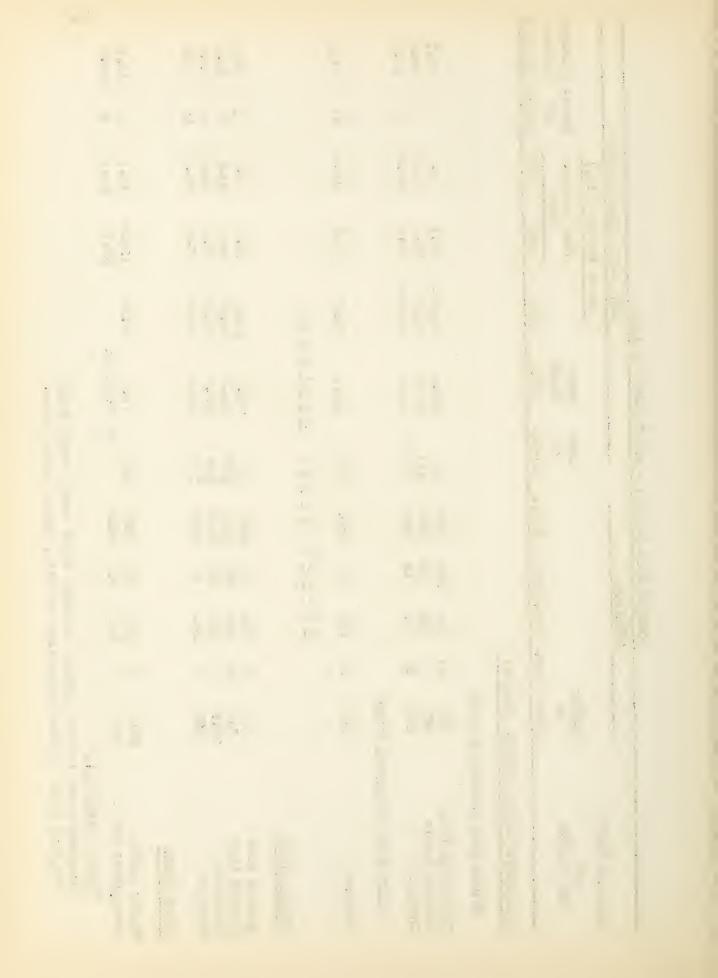
OREGON SNOW SURVEYS - ABOUT MARCH 1, 1952

			Cheston	NO.	CHESCON SINON SURVEIS	TOOGH -	MANATE 19	7221				
			LOCATION	III				SNOW C	SNOW COVER MEASUREMENTS	SUREMENT	23	
DRAINAGE BASIN								Mater	Water Content (In.)	(In.)		
and SNOW COURSE	Number					Date	Snow		Same Approx. Date	oproxe	Years.	Av.Water Content
	State	Sec	Twp.	Range	Elev.	Survey	(12.)	1952	1921	1950	Record	
WILLAMETTE VALLEY STREAMS (Cont'd)	AMS (Con	t14)										
MIDDLE FORK WILLAMETTE RIVER	TE RIVER											
Willamette Pass Cascade Summit	323 321	21	24S 23S	5 <u>沙</u> E 6E	5600	3/1	143 4	54.6bc	37.1	42.0	7	37 • 1
Champion	522	12	238	110	4500	2/28	108.9	50 3 pc	17.9	36.6	13	21.8
COAST FORK WILLAMETTE RIVER	E RIVER											
Champion	522	12	238	1E	4500	2/28	108.9	50.3bc	17.9	36.6	13	21.8
			이 찌	回 回 回 回	C 0 A	A1 S1	DRAIN	A G B				
UMPQUA RIVER												
Windigo Pass Diamond Lake	744	20 62	258	6 E	5800	3/1	144.1	54.3 38.4bc	42.9	21.5	1 23	42.9
Whaleback Champion	7219	3 21	31S 23S	2E	5140 4500	3/3	132.8	54.1bc 50.3bc	26.8	38.4 36.6	13	32.5 21.8
ROGUE RIVER												
Wagner Butte Seven_lakes No. 1	7213	H 10	40 S 34 S	1W 5E	0069	2/29 M	74.7 Not Measured	27.2bc	12,2a 52,9	16.1	14	13.9
i i i												13

Partly estimated.

bGreatest March 1 water content recorded since snow surveys began.

cGreatest water content, regardless of date, since record began.



OREGON SNOW SURVEYS - ABOUT MARCH 1, 1952

			LOCATI	LION				SNOW COVER MEASUREMENTS	ER MEASU	REWENTS		
DRAINAGE BASIN								Water C	Content (In.)	In.)		
and SNOW COURSE	Number					Date of	Snow Depth		Same Approx. Date	prox.	Years	Av.Water Content
	State	Sec.	Twp	Range	Elev.	Survey	(In.)	1952	1951	1950	Record	(Inches)
ROGUE RIVER (Cont'd)												
Bir Red Mountain	729	31	40S	MI	6500	3/3	115.0	48.0abc	19.4	22.4	ы	18.0
Little Red Mountain	7210	52	40S	214	6500	5/4	89.4	32.6a,b	13.0	20.8	13	15.4
*Park Headquarters	838	œ	318	EE	6450	2/29	196.0	87.4b,c	57 • 9	48.3	∞	50.3
Scragg Mountain	7220	o,	47 N	101	6200	3/1	130.1	53.3bcd	1	30.7	o,	22.5
Seven Lakes No. 2	7212	56	333	5E	6200	NO	Not Measured		37 • 9	38 • 5	9	39.4
*Amie Spring	831	19	31.5	6E	6018	2/29	168.1	71.2b,c	44.4	36.9	18	36 • 7
*Fourmile Lake	7223	G	368	5民	0009	2/24	110.5	1	ł	1	0	ł
Gravback Peak	727	Q	40S	SW	0009	2/28	114.1	49.7a	14.0	24.9	2	16.7
Billie Creek Divide	722	30	368	5E	5300	2/24	104.6	i i	18•5	28.4	20	20.8
Whaleback	7217	ы	318	2E	5140	3/3	132.8	54.1b,c	26.8	38.4	4	32.5
Hobart lake	7221	. 17	408	3E	5010	2/28	24.5	9.4	5.4	6.5	4	5.7
*Hyatt Prairie Reservoir	723	15	398	3E	4900	2/25	47 •0	16.4b	6•4	8.6	19	9.7
Fish Lake		ಣ	378	4E	4865	2/26	55.4	21.1	8.6	17.1	17	11,1
Siskiyou Summit	728	17	40S	2E	4630	Not	t Measured		3.7	9.8	91	5.9
Al thouse	7216	17	41S	714	4400	3/1	52.3	21.9b	2.1	12.6	13	4.8
Silver Burn	7219	30	308	4E	3720	3/1	58.5	24.0b,c	12.8	20.8	15	10.9
South Fork Canal	7218	12	338	3E	3500	3/1	24.9	9•6	E-4	8 •8	15	3°0
KLAMATH LAKE BASIN												
Summer Rim	841	15	335	39T	7200	3/1	70.5	26.8b	16.7	14.9	12	13.1
Seven Lakes No. 1	7211	10	34S	2 E	0089	Not	t Measured		52.9	54° &	۵	20.00
•												

*Not located directly in this drainage area.

bGreatest March 1 water content recorded since snow surveys began. Greatest water content, regardless of date, since record began. aTelegraphic

dPartly estimated.

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				-								
			LOCATION	MO				SNOW COVER MEASUREMENTS	OR MEASUF	EMENTS		
DRAINAGE BASIN								Water Co	Content (In.)	n.)		
and SNGT COURSE	Number					Date	Snow Depth		Same Approx. Date	roxe	Years	Av.Water Content
	State	Sec.	Twp.	Twp. Range	Elev.	Survey	(In•)	1952	1951	1950	Record	(Inches
) Itio / 1121 . 1 414 / 5 / 7 444												
KLAWATH LAKE BASIN (CONT. 4)	(1,0)											
Park Headquarters	838	8	318	6E	6450	2/29	196.0	87.4b,c	6. 73	48.3	ω	50.3
Seven Lakes No. 2	7212	26	33 S	5E	6200		Not Measured	ر ام	37 • 9	38.5	9	39 • 4
Annie Apring	831	19	318	E	8109		168.1	71.2b,c	44.4	36.9	18	36 •7
Fourmile Lake	7223	6	363	5臣	0009	2/24	110.5	:	1	ł	0	;
Strawberry	837	4	40S	16E	2600	3/9	54.2	18.0abc	7.7	7.6	בן	8•4
Quartz Mountain (COPCO)		33	37 S	16E	5504	3/3	36.0	10.0	1	3.0	8	6.4
Sun Mountain	836	22	328	7 <u>3</u> E	5350	2/28	118.1	43.1bc	30.4	19.6	14	23.5
Quartz Mountain	811	≈	388	16E	5320	3/3	42.4	14.4b	5.3	6.1	13	5.6
Billie Creek Divide	722	30	368	5臣	5300	2/24	104.6	1	18.5	28.4	02	20.8
Crowder Flat	Calif.	30	47 N	11E	5200	Not	t Measured	-	2.1	1.7	Ħ	3.1
Lake of the Woods	835	11	378	5民	4960	3/1	56.8	21.0b	10.2	13.1	15	8.3
Hyatt Prairie Reservoir	723	15	398	3E	4 500	2/25	47.0	16.4b	6.4	9.8	19	8.7
Gerber	839	12	398	3臣	4850	3/2	18.4	6.4p.c	6•0	}	~	2.8
Bly 101 Ranch (COPCO)		22	35S	14E	4800	2/29	17.0	4.2	0.2	0.0	22	1.6
Chemult	834	21	278	8E	47 60	3/1	58.7	21.4d	14.7	13.4	15	10,6
Yamsey (COPCO)		20	318	11E	4600	Repo	Report Delaye	ď	3.0	1.1	23	2.4
Kirk (COPCO)		Н	338	7玉	4533	3/1	38.0	0.6	5 • 5	6•9	24	6.1
Beatty (COPCO)		22	263	12E	4300	2/29	0.0	0.0	0.5	000	52	0.2
Crystal (COPCO)		56	34S	6 E	4200	2/29	55.5	26.0b,c	14.8	10.6	22	8•1
Harriman Lodge (COPCO)		છ	368	田9	4200	2/29	25.0	8.0	3.3	2•0	22	4.0
Chiloquin (COPCO)		34	348	7正	4187	2/29	19.5	7.2b,c	0.0	0.0	22	1.4
Fort Klamath (COPCO)		22	33 S	7治표	4150	2/29	35.0	10,00b,c	3.9	2.4	52	3.8

(COPCO) - Water content determined by melting a measured sample (The California Oregon Power Co.'s Station.) •

**Telegraphic bGreatest March 1 water content recorded since snow surveys began.

Greatest water content. regardless of date.** Greatest water content, regardless of date, since record began. a Telegraphic

dEqual to greatest water content measured regardless of date, since record began.

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Number				LOCATION	ð				SNOW COV	SNOW COVER MEASUREMENTS	REMENTS		
Number Number State Sec. Type, Range Eleve, Survey (In.e) 1952 1951 1950	DRAINAGE BASIN								Water C	ontent ((n º)		
State Sec. Twp. Range Elev. Survey (In.) 1952 1951 1950	and SNOW COURSE	Number					Date	Snow Depth		Same Apj Date	prox•	Years	Av.Water Content
Sign Sign		State	Sec.	Twp	Range	Elev.	Survey	(In•)	1952	1951	1950	Record	(Inches)
(COPCO) 837 21E 5720 2/28 64.7 22.6b,c 12.8 8.7 7.6 837 837 86.0 10.0 7.7 7.6 811 2 385 16E 5504 3/3 42.4 14.4 5.3 6.1 12.8 8.7 7.6 811 2 385 16E 5320 3/3 42.4 14.4 5.3 6.1 1	GOOSE LAKE BASIN												
(COPCO) 857 4 40S 16E 5600 3/5 54.2 18.0abc 7.7 7.6 811 2 385 16E 5504 3/3 .56.0 10.0 3.0 811 2 385 16E 5520 3/3 42.4 14.4 5.3 6.1 IN TERIOR DRAINAGE 911A 5 39S 21E 5720 2/28 64.7 22.6b,c 12.8 8.7 Nev.1 17 45N 21E 6720 2/28 31.9 10.35b,c 4.0 1.1 841 15 33S 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 34S 17E 6200 3/1 50.9 17.1b,c 8.2 7.5 811 2 38S 16E 5320 3/3 42.4 14.4 5.3 6.1	Camas Creek	91.1A	5	398	21E	5720	87/2	64.7	22.6b.c	12.8	8.7	ω.	. 9•1
IN 911A 5 398 16E 5320 3/3 42.4 14.4 5.3 6.1 Nev.1 17 45N 21E 6720 2/28 64.7 22.6b,c 12.8 8.7 841 15 338 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 348 17E 6200 3/1 70.5 26.8b 16.7 14.9 811 2 388 16E 5320 3/3 42.4 14.44 5.3 6.1	Strawberry (CODO)	837	4 k	40S	16E	5600	3/5	54.2	18.0abc	7.7	7.6	# S	8 4 4 4
IN 911A 5 39S 21E 5720 2/28 64.7 22.6b,c. 12.8 8.7 Nevel 17 45N 21E 6720 2/28 31.9 10.3b,c. 4.0 1.1 841 15 33S 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 34S 17E 6200 3/1 50.9 17.1b,c 8.2 7.55 811 2 38S 16E 5320 3/3 42.4 14.4 5.3 6.1	Quartz Mountain	811	2 03	388	16E	5320	3/3	42.4	14.4	5	6.1	13	5 6
M					떠	01	A H	N A G					
911A 5 39S 21E 5720 2/28 64.7 22.6b,c 12.8 8.7 Nev.1 17 45N 21E 6720 2/28 31.9 10.3b,c 4.0 1.1 841 15 33S 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 34S 17E 6200 3/1 50.9 17.1b,c 8.2 7.5 811 2 38S 16E 5320 3/3 42.4 14.4 5.3 6.1	WARNER LAKE BASIN												•
Mevel 17 45N 21E 6720 2/28 31.9 10.3b.c 4.0 10.1 841 15 53S 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 34S 17E 6200 3/1 50.9 17.1b.c 8.2 7.5 811 2 38S 16E 5320 3/3 42.4 14.4 5.3 6.1	*Camas Creek	911A	ව	3 98	21E	5720	2/28	64.7	22.6b,c	12.8	8.7	œ	9.1
Nevel 17 45N 21E 6720 2/28 31.9 10.35b,c 4.0 101 841 15 33S 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 34S 17E 6200 3/1 50.9 17.1b,c 8.2 7.5 811 2 38S 16E 5320 3/3 42.4 14.4 5.3 6.1	GUANO LAKE BASIN												
841 15 33S 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 34S 17E 6200 3/1 50.9 17.1b.c 8.2 7.5 811 2 38S 16E 5320 3/3 42.4 14.4 5.3 6.1	Bald Mountain	Nev.1	17	45N	21E	6720	2/28	31.9	10.3b,c		1.1	12	3.6
841 15 33S 16E 7200 3/1 70.5 26.8b 16.7 14.9 922 1 34S 17E 6200 3/1 50.9 17.1b.c 8.2 7.5 811 2 38S 16E 5320 3/3 42.4 14.4 5.3 6.1	CHEWAUCAN RIVER												
811 2 38S 16E 5320 3/3 42 4 14 4 5 5 6 1	*Summer Rim Will Creek	841 922	15	33S 34S	16E 17E	7200 6200	3/1	70.5	26.8 ^b	16.7	14.9	12	13.1
	*Quartz Mountain	811	ત્ય	38S	16E	5320	3/3	45 • 4	14•4	ت ب	1. 9	13	ა • ი

(COPCO) - Water content determined by melting a measured sample (The California Oregon Power Co.'s Station) *Not located directly in this drainage area. a Telegraphic

bGreatest March 1 water content recorded since snow surveys began.

Createst water content, regardless of date, since record began.



OREGON SHOW SURVEYS - ABOUT MARCH 1, 1952

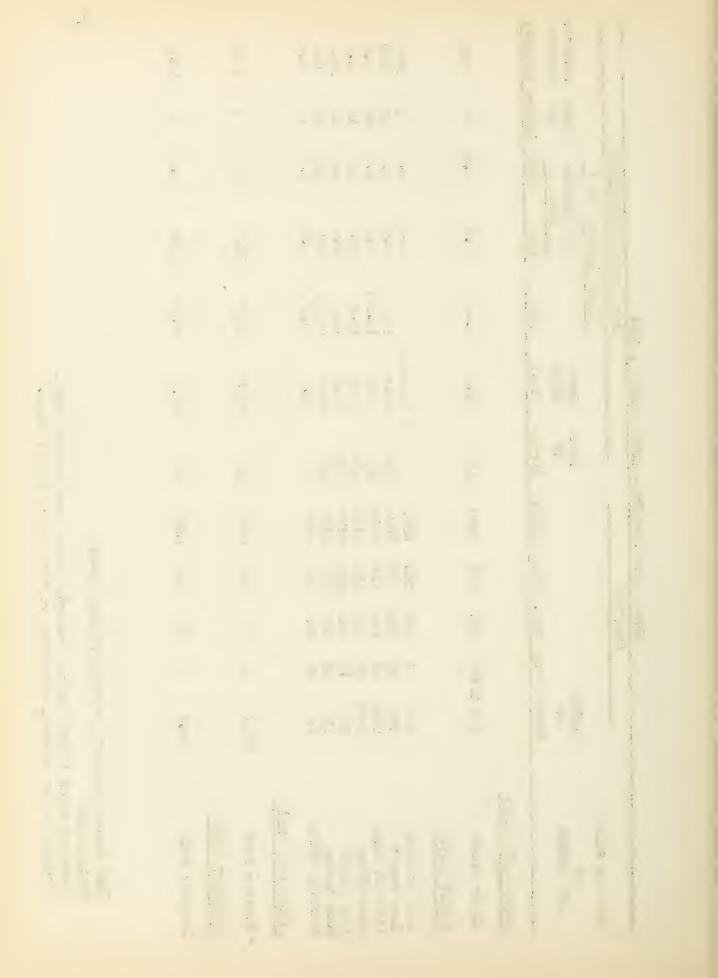
		T	LOCATION	N. N.	,	÷		SNOW COV	SNOW COVER MEASUREMENTS	SMEN TS		
DRAINAGE BASIN								Water C	Coptent (In.)	(-i		
and SNOW COURSE	Number	t.				Date	Snow		Same Approx. Date	.0x•	Years	av.Water Content
	State	Sec.	Twp.	Range	Elev.	Survey	(In.)	1952	1981	1950	Record	Record (Inches)
SILVER LAKE BASIN					i.				* •			
Silver Creek	942	942 25&26	298	13E	4900	2/28	21.2	;	3.9	2.8	12	2.9
HARNEY BASIN												
Snow Mountain	965	~	198	392	0029	Not	Measured		į	I	വ	10.8
Izee Summit	964	28	168	29E	5293		44.8	13.8	0*6	7.3	16	8.0
Idlewild Camp	961A	33	202	31E	5200	3/2	40 •5	11,6b,c	5.5	5•5	16	0.9
Starr Ridge	247B	20	158	31E	5156	2/28	. 37.2	10.8	5.3	5•3	91	5.7
Lake Creek	136		168	$33\frac{1}{2}$ E	5120	2/26	53.2	16.3	10.6	8.4€	13	10.2
Rock Spring	134	23	188	32E	5100	3/2	35.3	10.0	5.0	5.6	16	6.4
Stinking Water	135	33	213	34E	4800	3/1	29.7	8.7b,c	4•0	6.3	13	₹• ₹
ALVORD LAKE BASIN												
*Disaster Peak	Nev.6	∞	47N	34E	029	3/1	102.2	46.7a	16.7	6.3	ro	11.9
MC DERMITT CREEK												
Disaster Peak	Nev.6	ω	47N	34E	6500	3/1	102,2	46.7a	16.7	6.3	ю	11.9

Not located directly in this drainage area.

a Telegraphic

Description of Antering and Since snow Surveys began-

Greatest water content, regardless of date, since record began.



WILLAMETTE VALLEY SAGE PROFILES - ABOUT MARCH 1, 1952

		ĭ	LOCATION					SNOW COV	SNOW COVER MEASUREMENTS	REMENTS		
STREAM BASIN								Water (Content (In.)	[n•)	Past	Past Record
and SNOW COURSE						Date	Snow Depth		Same Approx. Date	orox•	Years	Av.Water Content
	Elev.	Number	Number Scc - Twp.	1	Range	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
SAMDY RIVER!												
Phlox Point-Mt. Hood	5600	452	ဖ	38	BE	2/27	148.3	66.7	61.4	73.6	14	52.7
Still Creek	37 00	451	£	38	8 <u>F</u> E	2/27	75.5	31.1	26.4	35 • 8	10	12.3
CLACKAMAS RIVER	•											
Peavine Ridge	3500	591	14615	68	7E	3/2	6.99	25.2	19.8	31.6	14	16.1
Clackamas Iake	3400	269	592 35	58	썖	2/25	48•6	16.4	16.1	23.8	I	14.3
Big Bottom	2118	*	52	65	7.图	3/3	39.0	12.5	7.8			
Lake Harriet	2045	*	4	6 S	7臣	3/3	25.0	9•5	€4			
S.NTIAM RIVERS												
Hogg Pass	4755	351	24	138	7 <u>3</u> E	3/1	137.1	56.1	44.3	50.4	11	38.4
Santiam Junction	3990	252	14	138	7E	3/1	94.4	40 • 9	24.7	37 •2	11	21.5
Marion Forks	2730	553	28	11.5	7E	3/1	56.0	21.8	12.6	59.4	디	13.1
Breitenbush	2325	551	23	86	7E		Report Delayed	ed	4.3	!	တ	4•1
Whitewater Bridge	2175	*	28	108	压	3/1	27.3	$\overline{}$	4.8			
Detroit (new town)	1500+	*	Н	108	5度	3/1	10,7	4.3	EH			
Detroit Dam	1580	*	2	108	5度	3/1	0•0	0.0	0.0			
Mi 11 Ci ty	8 56	*	53	86	3E	:	1	3				
Snow Line: at 1550 feet elevation.	et eleva	tion.										

*Auxiliary snow station - average of 3 to 5 samples - measurements taken at same point each survey.

Not strictly a part of the Willamette Drainage; these surveys are indicative of west slope conditions. NOTE: Standard Snow Course measurements unless otherwise indicated.



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WILLAMETTE VALLEY SAOW

		IOI	LOCATION		į			SNOW COV	SNOW COVER MEASUREMENTS	EMENTS		
STREAM BASIN								Water C	Water Content (In.	n.)	Past	Past Record
pue						Date	Snow		Same Approx	rox•	W	Mater
SNOW COURSE						ot	Dep th		Date		ot	Content
	Eleve	Number Sec.	Sec	Twp.	Twp. Range	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
MOKENZIE RIVER												
McKenzie	4800	531	83	158	7臺田	2/28	137.2	55.9	52.89	53.8	2	59.0
Hogg Pass	4755	351	24	138	7 <u>F</u> E	3/1	137.1	56.1	44.3	50.4	#	38.4
Santiam Junction	3990	552	라	138	7.E	3/1	94.4	40•9	24.7	37 •2	Ħ	21.5
Dead Horse Grade	3800	*	13	168	7E	2/28	73.0	29.0	21.3a			
White Branch Slide	2800	*	15	165	7E	2/28	35.7	13.0	10°00			
Lost Creek Ranch	1956	*	24	165	GE	;	;	;	;			
McKenzie Bridge	1372	*	13	168	SE	2/28	18.0	5.5	4.3a			
Vidae	800	*	28	168	3E	1	1	! 1	:			
Snow Line: about 3 miles below Mckenzie	les belo	w McKen		Bridge.								
MIDDIE FORK WILLAMETTE RIVER	RIVER											
Willamette Pass	2600	323	21	248	5 <u>3</u> E	3/1	143.4	54.6	37.1	ì	н	37.1
Waldo Lake	2200	521A	15	218	E GE	1	1	1	;			
Hiway Summit	5128	*	7	23.5	9	1.	1	1	!			
Cascade Summit	4880	321	7	238	E B	3/1	107.8	45.6	34.5	45.0	7	30.1
Champion	4500	.525	검	23 S	田	82/2	108.9	50.3	17.9	36.6	13	21.8
Salt Creek Falls	4000	*	33	5 2 S	E E	3/1	63.0	25 •0	14.6			
Railroad Overpass	2750	*	27	228	2E	3/1	24.2	8 . 6	3.0			
McCredie Spring	2120	*	36	218	4E	3/1	5.7	1•0	0.7			
Cakridge	1310	*	16	218	3E	3/1	0•0	0.0	E			
Meridian Dam	750	*	13	198	1M	;	!	1	}			
Snow Line: snow in patches between McCredie Spring and 3500 feet elevation.	tches be	tween M	credi	e Spri	ng and	3500 fee	t elevati	•uo				

NOTE: Standard Snow Course measurements unless otherwise indicated.

*Auxiliary snow station - average of 3 to 5 samples - measurements taken at same point each survey.

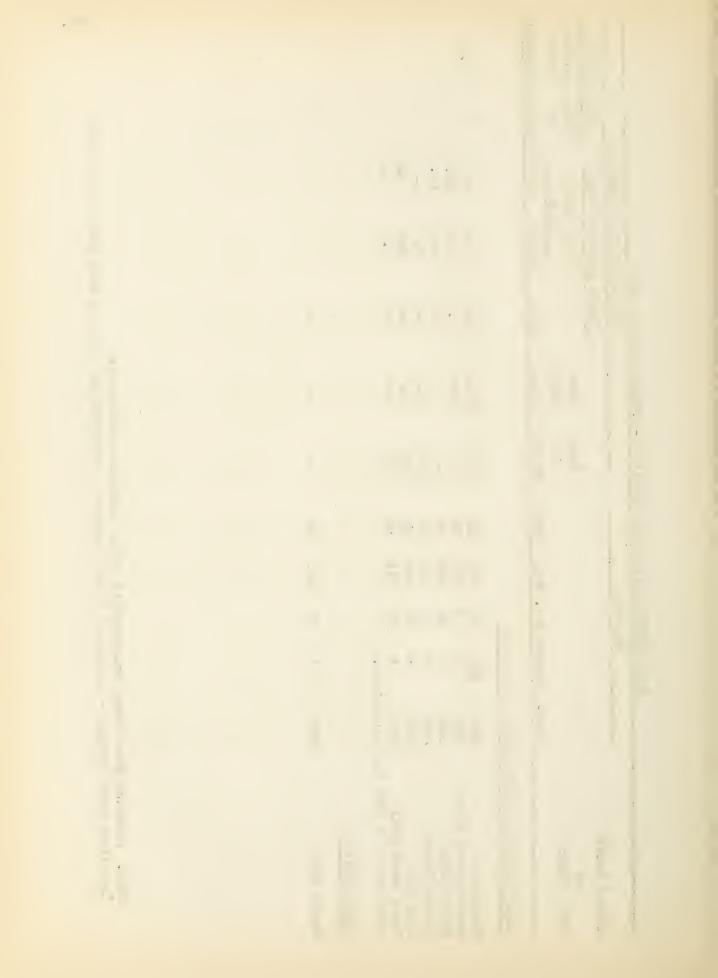
**Auxiliary snow station - average of 3 to 5 samples - measurements taken at same point each survey.



WILLAMETTE V.ILEY SNOW PROFILES - ABOUT MARCH 1, 1952

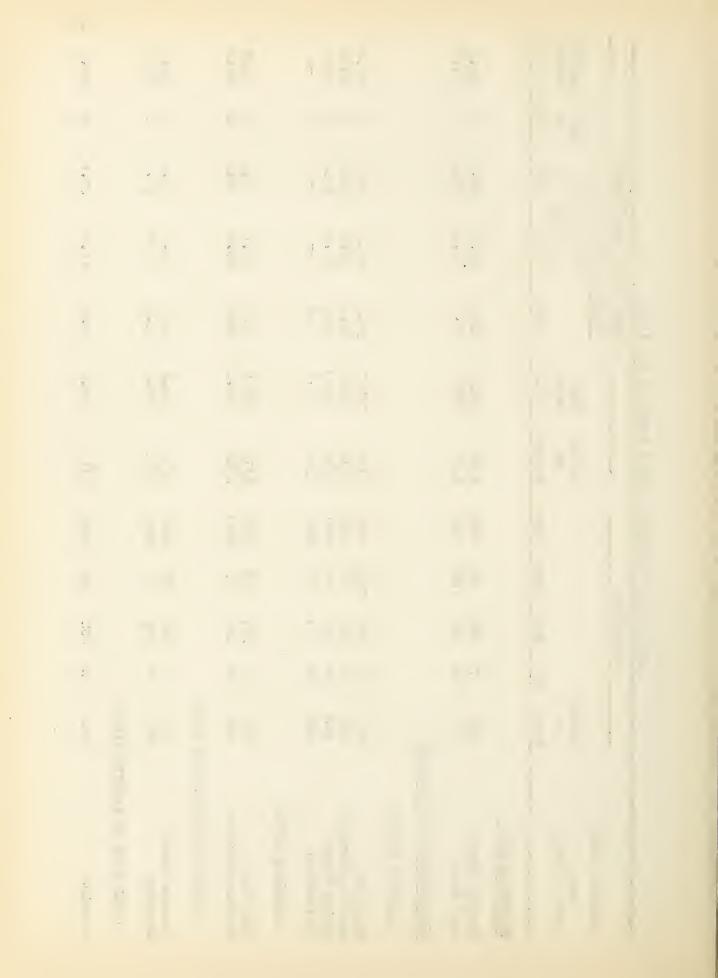
		H	LOCALTION	z				SNOW COV	SNOW COVER MEASUREMENTS	EMENTS		
STREAM BASIN								Water	Water Content (In.)	no)	Past	Past Record
and SNOW COURSE						Date	Snow Dopth		Same .pprox.	roxo	Years of	iv.Water Content
	Eleve	Elev. Number Sco	r Sec.	Twp	• Twp. Range	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
COAST FORK WILLAMETTE RIVER (Row River)	RIVER (F	Row Riv	or)									
Champion 4500 522 Golden Curry Creek 3136 * Nolson Creek 2864 * Weaver Creek 2440 * Lund Park 1740 * Layng Creek R.S. 1200 * Snow Line: at 1650 feet elevation. MARY'S RIVER	4500 3136 2864 2440 1740 1200 set eleva	522 tion• * * * *	12 36 35 22 31	238 228 228 228 228 228 228 228 228	1.8 1.8 1.8 1.8 1.8	2/28 2/28 2/28 2/28	108.9 46.6 23.7 13.0	50.3 17.8 8.3 4.7 0.0	17.99 2.3 2.3 1.0 0.5 0.0	36 6 115 5 118 0 4 0 0 0	13	21.8
Mary's Peak	3620	541	21	128	7W	ŀ	;	1				

NOTE: Standard Snow Course measurements unless otherwise indicated. *Auxiliary snow station - average of 3 to 5 samples - measurements taken at same point each survey.



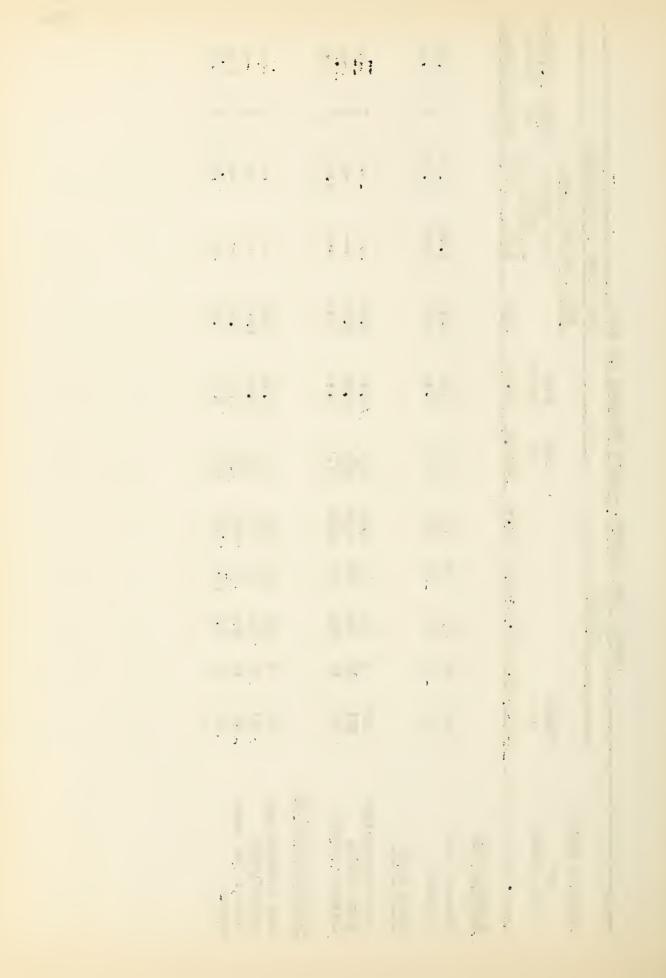
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		ğ	OKEGOS N	SNOW SURVEYS	KVEYS -		ABOUT FEBRUARY 15,	1952				
		;	LOCATI ON	N				SNOW CO	SNOW COVER MEASUREMENTS	JR EMEN TS		
DRAINAGE BASIN								Water	Content (In.)	(I.a.s.)		
and SNO, COURSE	Number or					Da te of	Snow Depth		Same Approxe. Date	ea O v.c. v.c.	Years	Av.Water Content
	State	Seco	Twpe	Range	Eleve	Survey	(In.)	1952	1951	1950	Record	(Inches)
DESCHUTES RIVER												
Cascade Summit Hogg Pass	321	7 24	238	6E 7 <u>1</u> E	4880 4755	2/15 2/16	101.2	41.7 52.5	29.3	40.9 48.5	∾ ∾	35.1 44.8
WILLAMETTE VALLEY STREAMS	EAMS											
SANTIAM RIVERS												
Hogg Pass Santiam Junction	351	24	13S 13S	72E	4755 3990	2/16 2/16	133.0	52.5 36.5	41.1 23.0	48 . 5	02 02	44.8
Marion Forks Breitenbush	553	28	11S 9S	7E 7E	2730 2325	2/16 2/14	52.0	20°0 8°0	11.6	31.0	α Ο	21.3
MCKENZIE RIVER												
Hogg Pass Santiam Junction	351 552	24	13S 13S	7 2 7 E	4755 3990	2/16 2/16	133.0 89.0	52.5	41.1	48.5 39.5	~ ~	44 •8 31 • 3
MI DDLE FORK WILLAMETTE RIVER	TTE RIVER											
Cascade Summit Champion	321 522	12	238	6E 1E	4880 4500	2/15 2/14	101.2	41.7	29.3	40.9 37.8	21 25	35.1 30.1
COAST FORK WILLAMETTE	TE RIVER											,
Champion	522	12	233	13	4500	2/14	988	44.2	16.6	37 •8	83	30.1



OREGON SNOW SURVEYS - ABOUT FEBRUARY 15, 1952

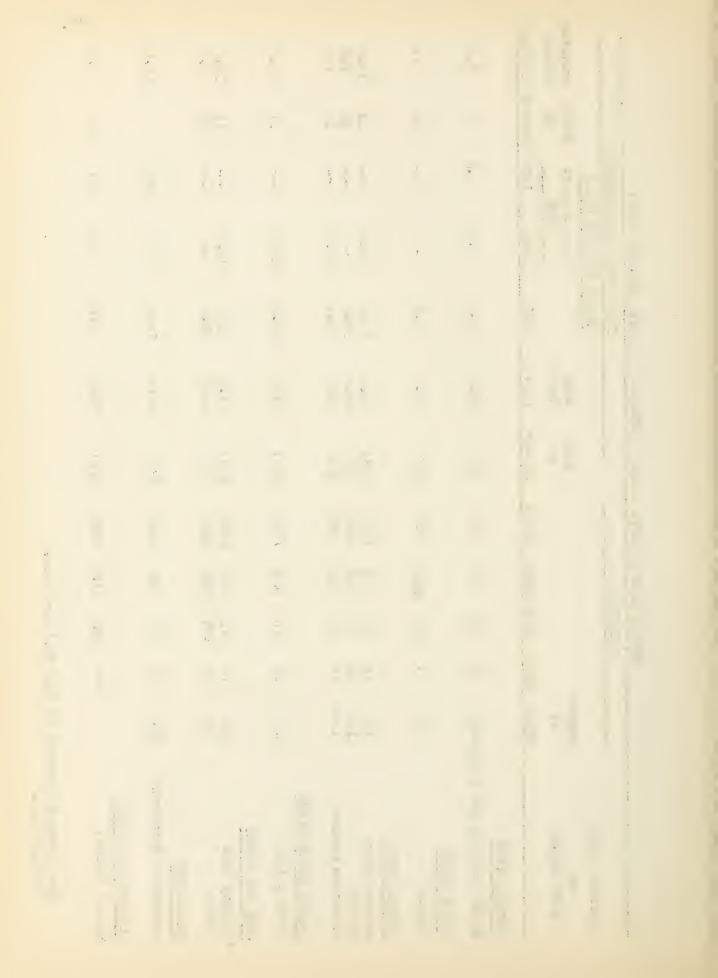
		LOCATION	NC	;			SMOW CO	SINOW COVER MEASUREMENTS	REMENTS		
DRAINAGE BASIN							Water	Water Content (In.)	In.)		
and SNOW COURSE	Number				Date	Snow		Same Approxe Date	prox.	Years	Av.Water Content
	State Sec.	Twp.	Range	Elev.	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
UMPQUA RIVER											
Diamond Lake Champion	743 29 522 12	27.5	6E 1E	5315 4500	2/14 2/14	85.3 98.6	35.4 44.2	.21.9	27.7	4 W	21.3 30.1
ROGUE RIVER											
Park Headquarters Annie Spring	838 8 831 19	318	66日	6450	6/2	179.5	80.6	11	11;	000	119
Siskiyou Summit KLAMATH LAKE BASIN		40s	고 기	4630	2/16	45 • I	17.1	ł	8*17	N3	12.2
Park Headquarters Annie Spring Lake of the Woods Gerber	838 8 831 19 835 11 839 12	318 318 378 398	6E 6E 5E 13E	6450 6018 4960 4850	2/9 2/17 2/15	179.5 148.4 57.7 16.2	80.6 62.7 25.0 5.8	1111	1 %	0044	13.5



OREGON SNOW SURVEYS - ABOUT FEBRUARY 1, 1952 (DELAYED DATA)

		T	LOCATION	N				SNOW COL	SNOW COVER MEASUREMENTS	EMENTS		
DRAINAGE BASIN								Water (Content (In.	(h)		
and SNOW COURSE	Number					Date	Snow Depth		Same Approx. Date	prox.	Years	Av.Water Content
	State	Sec	Twp.	Twp. Range	Elev.	Sur vey	(In.)	1952	1921	1950	Record	(Inches)
CONTHEE RIVER South Mountain No. 2 Idahol3	Idaho13	35	78	2M	6340	2/6	53.0	. 17.9	7.62	7 •5	11	& • •
BURNT RIVER	142	34	108	35 ½E	5100	2/6	46•3	13.2	ł	ł	35	7.1
PCWDER RIVER Anthony Lake Bourne Eilertson Meadows	155 154 151B	18 33 18	7.8 88 88	37E 37E 38E	7125 5800 5400	1/31 2/7 2/10	71.8 64.7 48.5	23.2 19.9 14.4	16.5	111	11 21 .	18•7 9•0 7•6
GRANDE RONDE RIVER Anthony Lake	155	18	78	37 E	7125	1/31	71.8	23.	16.5	ŀ	11	18•7
JOHN DAY RIVER **Anthony Lake Tipton	155	18 34	78 108	37E 35 <u>2</u> E	7125	1/31 2/6	71.8	23.2	16.5	11	11	18.7
HOOD RIVER Greenpoint Reservoir	433	28	2N	9臣	3400	2/5	52.8	19•4	14.3	29•0	4	18.9
KLAMATH LAKE BASIN Yamsey (COPCO)		20	318	11E	4600	1/31	25.0	7.2	4.	4	21	83 83

*Not located directly on this drainage area. aTelegraphic.



OREGON PRECIPITATIONA

	CURRENT YEAR		LAST YEAR		
DRAINAGE	Oct. 1,1951	-March 1,1952	Oct. 1,1950-Me	arch 1,1951	
DIVISIONS	P	D	P	D	
Southeastern	6,87	+ 1.90	€.20	+ 1.20	
Southcentral	6,95	+ 1,86	8.06	+ 2.71	
Central	7.51	+ 1.32	10.02	+ 3.79	
Columbia River	10.35	+ 0.56	14.88	+ 5.28	
Wallowa Mountains	9.02	- 0.21	8,63	- 0.20	
Blue Mountains	8.84	+ 0.55	7.76	+ 0.65	
Southern	24,52	+ 7.76	26.36	+10.28	
Willamette Valley	40,05	+ 5.42	51.74	+18,12	
P - Inches Precipitation D - Inches Departure from Normal					
Southeastern	outheastern - Malheur and Owyhee drainages.				
Southcentral	- Interior Basin drainages and Goose Lake.				
Central	- Deschutes and Crooked drainages.				
Columbia River	- Lower valleys of the Walla Walla, Umatilla, John Day, Deschutes and Hood River drainages.				
Wallowa Mountains	- Imnaha, Wallowa, Catherine, Eagle, and Pine drainages.				
Blue Mountains	- Upper valleys of the Burnt, Powder, Grande Ronde, Umatilla, Walla Talla, John Day, Silvies, and Malheur drainages.				
Southern	- Umpqua,	Rogue and Kla	math drainages.	•	
Willamette Valley	- All Wil	lamette draina	ges.		

aPreliminary data computed from Weather Bureau records.



STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and corps of State Watermasters
Oregon State Highway Engineers

FEDERAL

Department of Agriculture
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Department of National Defense
Army Engineer Corps

PUBLIC UTILITIES

California-Pacific Utilities Company Portland General Electric Company The California Oregon Power Company

MUNIC IPALITIES

City of Baker City of Corvallis City of La Grande City of The Dalles

IRRIGATION DISTRICTS

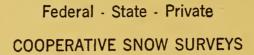
Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
East Fork Irrigation District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Tater Users Incorporated
Medford Irrigation District
Ochoco Irrigation District
Rogue River Irrigation District
Talent Irrigation District
Vale-Oregon Irrigation District
Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

Amalgamated Sugar Company South Wasco Soil Conservation District The Crag Rats, Hood River, Oregon







Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"